

FIG. 2

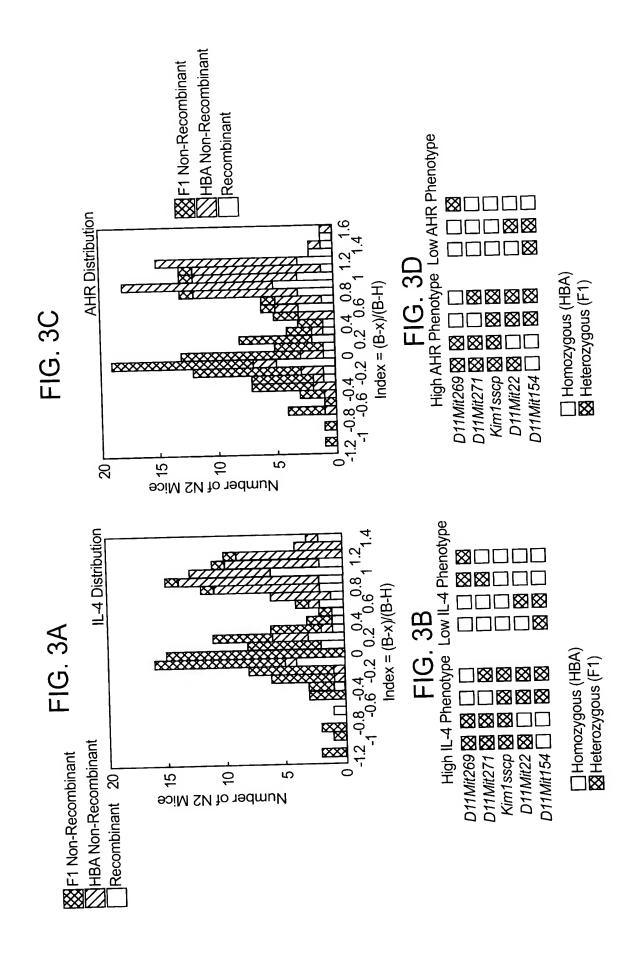


FIG. 4

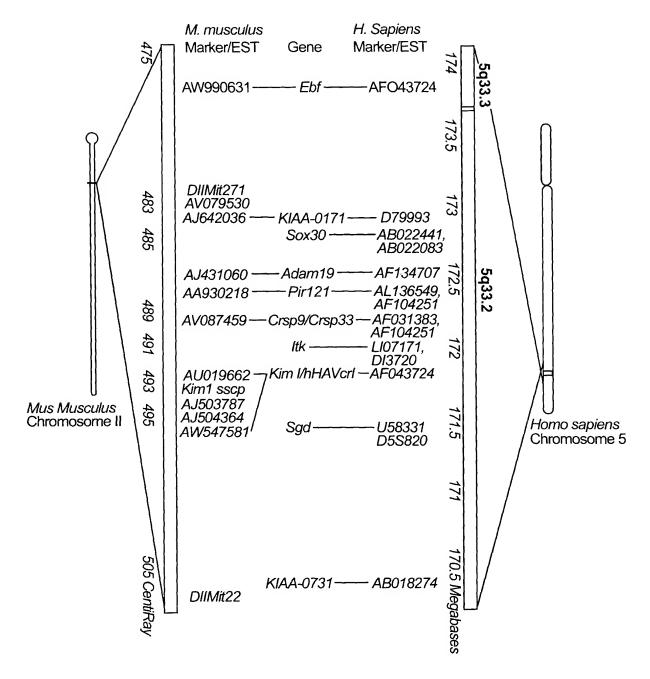


FIG 5A

100 100 97 97	149 148 156 197	180 178 218 297	275 273 317 396	
WOUSE TIM-1 MADIQVFISGLILLIPGHVDSYJEVKGVVGHPVTLPCTYSTYRGITTTCWGRGQCPSSACQNILIWINGHAVTYQKSSRYNLKGHISEGDVSLTIENSVE Rat KIM-1 MADLQVFISGL[LLLPGSVDSYEVKGVVGHPVT]BCTYSTRGITTTCWGRGQCPKSSCQNILIWINGHAVTYRSSGRYNLKGRISEGDVSLTIENSVD Human HAVcr-1 M-HPQVVILSLILHIADSVAGSVAKGSFAGESVTLPCHMSGAVTSMCWNRGSGSLFTQNGIVWINGTHVTYRKDIRKLIGDLSRRDVSLTIENTAV MONKEY HAVcr-1 M-HLQVVILSLILHIADSWADSVAVGISITLFCRKYGAITSMCWNRGTCSVFSCPDGIVWINGTHVTYRKFTRYKLIGNLGRRDVSLTIFANTAV	Mouse TIM-1 SDSGLYCCRVEIPGWENDQRVIESLQVRPE	Mouse TIM-1 PTT	Mouse TIM-1 KPEPITTECPHETTAEVTGIPSHT-PTDWNGTVTSSGDT-WSNHTEALPPGKPOKNPTKGFYVGICIAALLLLLIASTVAILTRYILM RAL KIM-1 KPEDITTEVAHETTAEVTETPSHT-FROWNGTVTSSEEA-WNNHTVRLFLRKEPOKNPTKGFYVGASVAALLLLLIASTVATTITI HUMAN HAVCr-1 EPVAHSPSSPOPAETHETHLOGAIRREPTSSELYSYTHUGNOTVTESSEGIWNNNNOTQLFLEHSLLTANTHKGTKATKATKATKATLGVITAKKKFF-Monkey HAVcr-1 EEVAHSPSSPOPAETHEVILLGATRIOPUSSELYSYTHUGSDLVJFSSEGIKNNNNOTQLSFEHSPOMNITEGIKAAVCISVIVILAVLGVVITAKKKFF-MONKEY HAVCr-1 EEVAHSPSSPOPAETHEVILLGATRIOPUSSELYSYTHUGSDLVJFSSEGIKNNNNOTQLSFEHSPOMNITEGIKAAVCISVIVILAVLGVVITAKKKFF-	Mouse TIM-1 <u>Krksasishvafrvskiffalonaavvhsraednivivedr</u> p

FIG. 5B

V M-NQIQVFISGLILLIPGIMDSYVEVKGWGHPVTLPCTYSTYR-G-TTTTCWGRGQCBSBACQNTLIWTNGHRVTYQKSSRYNLKGHFSEQDVSLTIEN M-NQIQVFISGLILLIPGAVEBHTAWGGLAGHPVTLPCIYSTHL-GGIVPMCWGRGFCBWSYCHRSKLIWTNGYTYTYQKSSRYQLKGNISEGMVSLTIEN MFSGLTINCVILLILQLLIARSLEDGYKVAVGKNAYLPCSYTLPTSGTTVPMCWGRGFCBWSQCINFILRTDERNVTYQKSSRYQLKGDINKGDVSLFIFM	♦ SVESDSGLYCCRVEIPGWFNDQKVTFSLQVKPEIPTRPTRPTTTRPTATGRPTTISTRSTHVPTSIRVSTSTPPTSIHTWIHKPEPTTFCPHETTAEVT TVVGDGGPYCCRVEIPGAFHF-TVDYMLEVKPEISTSPPTRPTATGRPTTISTRSTHVPTSTRVSTSTSPTPAHTELTMRPEPATTFPPDQTTAEVT VTLDDHGTYCCRLQFPGLMNDKKLEIKLDIKAAKVLPAQTAHGDSLTASPRTITTERN	GI PSHIBIDWAGIVTSSGDIWSNHTERI PPCKPQKNPTKGFY <u>VGICIAA-LLILIINSTVAI</u> TRYI IMKRKSASILSWAFRVSKIERILANAPAVHSRAED ETLPSITADWHNTVTSSDDFWDDNIEWI PPCKPQKNINKGFY <u>VGISIAA-LLIIIMILSTWUI</u> TRYWWKRKSESLSFVAFPISKI GASPKKWERIKCED GSETQIIVTILANNGTKI STWADEIKDSGETIRTAIHIGVGVSAGIITLALII IGVLILKWYSCKKKKISSLSLITIANLPPGTIANAGAVRIRSEE	NIYIVEORIP
Mouse TIM-1	Mouse TIM-1	Mouse TIM-1	Mouse TIM-1
Mouse TIM-2	Mouse TIM-2	Mouse TIM-2	Mouse TIM-2
Mouse a2-11	Mouse a2-11	Mouse a2-11	Mouse a2-11

FIG. 5C

TIM-1 Variants

4 4	MNQIQVFISGL: MNQIQVFISGL:	V MNQIQVFISGLILLLPGAVDSYVEVKGVVGHPVTLPCTYSTYRGITTTCWGRGQCPSSACQNTLIWTNGHRVTYQKSSRYNLKGHISEGDVSLTIENSVE MNQIQVFISGLILLLPGTVDSYVEVKGVVGHPVTLPCTYSTYRGITTTCWGRGQCPSSACQNTLIWTNGHRVTYQKSSRYNLKGHISEGDVSLTIENSVE	HBA BALB/c
100	SDSGLYCCRVE:	◆	нва
	SDSGLYCCRVE:	SDSGLYCCRVEIPGWFNDQKVTFSLQVKPEIPTRPPRRPTTTRPTATGRPTTISTRSTHVPTSTRVSTSTPPTSTHTWTHKPEPTTFC	вацв/с
200	PTDWNGTV'	PTDWNGTVTSSGDTWSNHTEAIPPGKPQKNPTKGFY <u>VGICIAALLLLLUSTVAIT</u> RYILMKRKSASLSVVAFRVSKIEALQNAAVVHSRAEDNIYI	нва
	SHT PTDWNGTV'	SHTPTDWNGTVTSSGDTWSNHTEAIPPGKPQKNPTKGFY <u>VGICIAALLLLLUSTVAIT</u> RYILMKRKSASLSVVAFRVSKIEALQNAAVVHSRAEDNIYI BA	вашв/с
300	VEDRP VEDRP	HBA BALB/c	

A2-11/TIM-3 Variants

KN HBA KN BALB/c	IGV HBA	HBA BALB/C
mfsgltlncvllllolilarsle <u>nanvpe</u> vgknaylpcsytu <mark>she</mark> lalvpmcwgkgfcpwsqctnellrtdernvtyqkssryqlkgdlnkgdvsliikn mfsgltlncvllllqlllarsle <mark>dgykve</mark> vgknaylpcsytup <mark>hsat</mark> lvpmcwgkgfcpwsqctnellrtdernvtyqkssryqlkgdlnkgdvsliikn	♦ VTLDDHGTYCCRIQFPGLMNDKKLELKLDIKAAKVTPAQTAHGDSTTASPRTLTTERNGSETQTLVTLHNNNGTKISTWADEIKDSGETIRTAIHIGV <u>GV</u> VTLDDHGTYCCRIQFPGLMNDKKLELKLDIKAAKVTPAQTAHGDSTTASPRTLTTERNGSETQTLVTLHNNNGTKISTWADEIKDSGETIR <u>TAIHIGVGV</u>	<u>SAGLTLALIIGVLIL</u> KWYSCKKKKLSSLSLITLANLPPGGLANAGAVRIRSEENIYTIEENVYEVENSNEYYCYVNSQQPS <u>SAGLTLALIIGVLIL</u> KWYSCKKKKLSSLSLITLANLPPGGLANAGAVRIRSEENIYTIEENVYEVENSNEYYCYVNSQQPS
ਜਜ	100	200

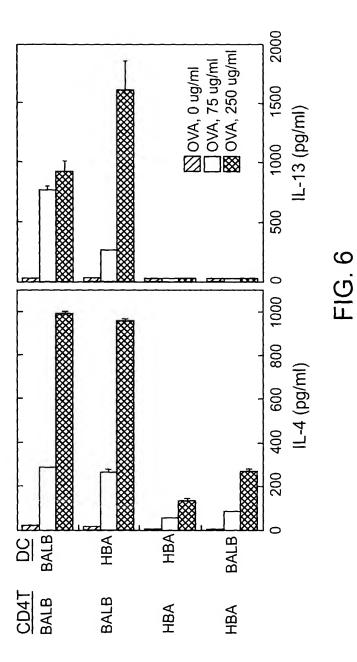


FIG. 7

SignalMNQIQVEISGLILLIPGAVES HTAVQGLAGHPVTLPCIYSTHLGG-IVPMCMGLGECRHSYCIRSLIWTNGYTVTHQRNSRYQLKGNISEGNVSLTIENTVVGDGGPYCCVVEIPGAFHFVDYMLEVKMNQIQVFISGLILLIPGAVES YVEVKGVVGHPVTLPCIYSTYRGITTTCMGRGQCPSSACQNTLIWTNGHRVTYQKSSRYNLKGHISEGDVSLTIENSVESDSGLYCGRVEIPGWFNDDKVTFSLQVKPMHPQVVILSLILHLADSVAG SVKVGGEAGPSVTLPCHYSGAVTSWGWNRGSCSLFTCQNGTVWTHVTYRKDTRYKYLLGOLLS RRDVSLTIENTAVSDSGGYCCRIGFEGLMNKITVSLEIVPMPSGLTINCVLLLQLLARS LENAYVEFOKNAYLPCFYTHSTPCRANYVECONSTRINGTYRYTHLGNAY SPUNGTGREFKLDIRAMSSGLTLLACVLLLLLLITRS SEVEYRAEVGGYAZLPCFYTHAPAPGROLLVPVCWGKGAC PVFECGNVVRTPTPERDVNYWTSRKGDVSLTIENVTLADSGTYCCRIGFEGNANDEKFYLKLUYREMSKGLLLLMALVXELWMLYLTPA ASEDTIIGFLGQPVTLPCCYSSWSHN-SNSWWGKGSCPNSKCNAELLFTGGRTRIFSRKSTKYTLLGKVQFGERGDVSLTISNTRNGDSGVYCCRIEVPGWFNDVKKNVRLURR MSKEPLILMIMIEFWMLYLTPVIS ETVY TEVLGHRVTLPCLYSSWSHN-SNSWWGKGSCPNSKCNAELIRTDGRNVTSRKSAKYRLQGTTFRGDVSLTILNPSESDSGVYCCRIEVPGWFNDVKKNVRLNLQR	MUCIN DOMAIN	Transmembrane Domain WHYOT-SSDDPWDDNTEVIPPOKPOKNINK	# residues conserved in IgV superfamily domain * identity YYCYVSRQQPSQDEGCRFAMP * strongly similar * weakly similar * weakly similar
SignalMNQIQVFISCLILLPGAVES HTAVQGLAMNQIQVFISCLILLLPGTVDS YVEVKGVVMHPQVVILSLILHLADSVAG SVKVGGEAMFSGLTLNCVLLLLQLLLARS LENAYVFEVFSHLPFPCVLLLLLLLLTRS SEVEYRAEV MSKGLLLLWLXELWWLYLTPA ASEDTIIGET MSKEPLILWLMIEFWWLYLTPVIS ETVV TEV	Mucin DomainEISTSPPTRPTAT	Mucin Domain HNTVT-SSDDPWDDNTEVIPPOKPOKNLNK- NGTVT-SSGDTWSNHTEAIPPGKPOKNPTK NDTVTESSGGLWNNNQTQLFLEHSLLTANTTK- GTKISTWADEIKDSGETIR LTQISTLANELRDSRLANDLRDSGATIR RSWMTISTDIAVLRPTGSNPGILPSTSQLT: SSAESTSADTVLLTSKESKVWDLPSTSHVSK	ERTRCEDQVYIIEDTPYPEEES
mTIM-2 mTIM-1 hTIM-1/ HAVGr-1 mTIM-3 hTIM-3 mTIM-4 hTIM-4	mTIM-2 mTIM-1 hTIM-1/HAVcr-1 mTIM-3 hTIM-4 hTIM-4	mIIM-2 mTIM-1 hIIM-1/ HAVCr-1 mTIM-3 hTIM-3 mTIM-4 hTIM-4	mTIM-2 mTIM-1/HAVCr-1 hTIM-3/hTIM-3 hTIM-3 hTIM-4

NM_012206	MHPQVVILSLILHLADSVAG SVKVGGEAGPSVTLPCHYSGAVTSMCWNRGSCSLFTCQNGIVWTNGTHVTYRKDTRY	Frequency
NM_012206	KLLGDLSRRDVSLTIENTAVSDSGVYCCRVEHRGWFNDMKITVSLEIV PPKVTTTPIVTTV PIVTTVRTSTTVPTTT	.05
NM_012206 1 2 3 4 5	TVPITTIVPTTMSIPTTTIVPTTMTVSTTTSVPTTTSIPITTSVPVTTTVSTFVPPMPLPRQNHEPVATSPS A V A A A	. 65 . 05 . 40 . 40
NM_012206 6	SPQPAETHPTTLQGAIRREPTSSPLYSYTTDGNDTVTESSDGLWNNNQTQLFLEHSLLTANTTKGIYAGVCISVLVL D	.02

FIG. 9

